



# Shakespeare

A valmont BRAND

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## 8' DEADEND CROSSARM ASSEMBLY

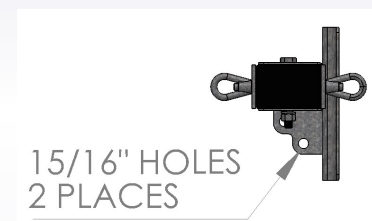
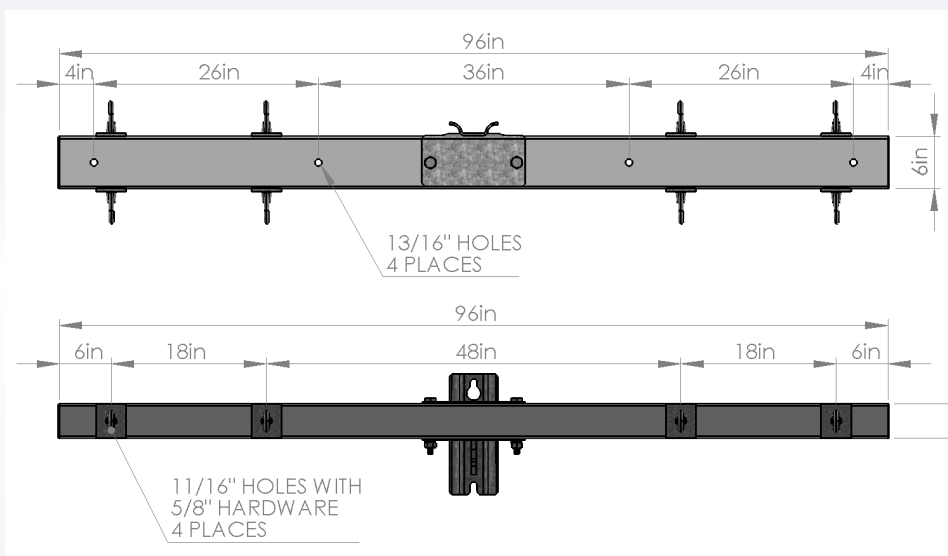
MODEL—IDB096-150687

(Formerly IDB096-180071 and IDB096G1224GPSG)

### *Strong, Durable Composite Deadend Crossarm Assembly*

Engineered for robust performance, Shakespeare fiberglass composite deadend crossarm assemblies serve as the anchoring points along transmission and distribution lines. Shakespeare crossarms are a great choice for use on composite, concrete, steel or wood utility poles. Often, composite crossarms are twice the strength and half the weight of their wood counterparts.

- 4" x 6" x 96" Deadend Assembly
- Lightweight—Easy to Install
- Environmentally Safe
- Triple UV Protection
- Gray in Color
- Will not Rot, Splinter or Corrode
- Impervious to Insects, Woodpeckers
- Excellent Dielectric Properties
- Excellent Toughness and Impact Strength
- Standard Installation No Special Tools Needed



|               | ULTIMATE<br>LOAD PER WIRE<br>(LBS) | DEFLECTION<br>PER 1000<br>(in) | WEIGHT<br>(lbs) | GUY WIRE<br>RATING<br>EACH<br>(lbs) | MOMENT OF<br>INERTIA ABOUT<br>THE NEUTRAL<br>AXIS<br>(in <sup>4</sup> ) | SECTION<br>MODULUS<br>ABOUT THE<br>NEUTRAL AXIS<br>(in <sup>3</sup> ) | BENDING<br>STRESS<br>(psi) | MOMENT<br>@ FAILURE<br>(in/lbs) | FLEXURAL<br>MODULUS<br>(psi) |
|---------------|------------------------------------|--------------------------------|-----------------|-------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------|---------------------------------|------------------------------|
| 2 WIRE RATING | 17,000                             | .23"                           | 70              | 35,000                              | 28.36                                                                   | 9.45                                                                  | 66,561                     | 629,000                         | 3.71X10 <sup>6</sup>         |
| 4 WIRE RATING | 11.232                             | .35"                           | 70              | 35,000                              | 28.36                                                                   | 9.45                                                                  | 66,561                     | 629,000                         | 3.71X10 <sup>6</sup>         |

TESTING PER ASTM D8019-15



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## IDB096-150687 8' DEADEND CROSSARM ASSEMBLY

### REFERENCE STANDARDS

ASTM A153 (Zinc Coating); ADTM D635 (Burning of Self Supporting Plastics); ASTM G154 (Operating light and water exposure apparatus for non-metallic materials); ASTM D8019-15 (Determining the full section flexural modulus and bending strength of fiber reinforced polymer crossarms assembled with center brackets).

### WEATHER AND UV PROTECTION

UV inhibitors shall be added to the resin system and the outside surface of the crossarm shall be covered with a polyester surface veil to prevent fiber bloom. Also, the arm shall be coated with a minimum of 1.5 mils of UV resistant coating. Crossarms shall be tested for a minimum of 15,000 hrs. on the veil surface and 15,000 hrs. on the coated surface for a combined test of 30,000 hrs. with QUV-A per ASTM G154 with 4 hour light cycle and 4 hour humidity cycle.

### FOAM FILLING

Crossarms shall be foam filled with a closed cell high density foam to prevent water ingress and must completely fill the crossarm and adhere to the inside walls.

### MOUNTING BRACKET OR HARDWARE

Mounting brackets shall be manufactured from hot dipped galvanized steel using 50,000 psi steel. All bolts, nuts and other hardware to be hot dipped galvanized.

### END CAPS

Crossarm shall be sealed with non-removable flush mounted endcaps. External caps are not acceptable.

### MECHANICAL STRENGTHS

The ultimate strengths should be listed per ASTM D8019-15. Compressive strength in both the vertical and horizontal directions shall be a minimum of 500 psi without permanent deformation or damage to the fiber/ resin matrix.

### ELECTRICAL CHARACTERISTICS

Fiberglass crossarms shall have an average 60 Hz BIL of no less than 15kV/in and an average wet 60 Hz BIL of no less than 12 kV/in.

### IDENTIFICATION

Each fiberglass crossarm shall be permanently marked with the manufacturer's name or logo and the date of manufacture

### PACKAGING

Fiberglass crossarm shall be shipped fully assembled.

